

dance on Tresco, one of the Scilly islands, by Miss White of that place. Mr. Woods has gathered *Brassica Cheiranthus* on the sands near Penard Castle, near Swansea; and *Potamogeton plantagineus* exists in Sir J. E. Smith's herbarium, gathered by Mr. D. Turner, at Diss, in Norfolk, and Dr. H. Thompson, in the south of Scotland. In the herbarium of Dr. Johnston, of Berwick, is a specimen obtained by Dr. R. D. Thompson in Ferny Rig marsh, Berwickshire, and I possess a sample of it, gathered by myself in Bottisham fen, Cambridgeshire. In all these cases the plant has been referred to a wrong species, but was suspected to be distinct by Dr. R. D. Thompson. I have lately gathered *Atriplex rosea* on the coasts of Holy Island (Lindisfarn), Berwick, and the Forth near Newhaven, and Mr. Borrer has sent it to me from the Sussex coast.

St. John's College, Cambridge, Oct. 27, 1838.

XLI.—*Descriptions of British Chalcidites.* By FRANCIS WALKER, F.L.S.

[Continued from p. 205.]

Sp. 36. Cirr. Cyrrhus, Fem. *Cyaneus, antennæ nigræ, pedes cyanei, tarsi fulvi, protibiæ flavæ, alæ limpidæ.*

Obscure cyaneus: oculi et ocelli rufi: antennæ nigræ; articulus 1<sup>us</sup> nigro-cyaneus: pedes cyanei; trochanteres fulvi; genua flavæ; tarsi fulvi, basi flavi, apice fusci; propedum tibiæ flavæ extus fulvo vittatæ, tarsi pallide fusci: alæ limpidæ; squamulæ fuscæ, antice cyanæ; nervi fusci. (Corp. long. lin.  $\frac{3}{4}$ ; alar. lin. 1.)

June, near London.

*Fem.* Corpus gracillimum, sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, thorace latius: antennæ graciles, extrorsum crassiores, corporis dimidio longiores; articulus 1<sup>us</sup> gracilis, sublinearis; 2<sup>us</sup> longicyathiformis; 4<sup>us</sup> 3<sup>o</sup> brevior; 5<sup>us</sup> adhuc brevior; clava fusiformis, acuminata, articulo 5<sup>o</sup> plus dimidio longior: thorax longiovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidium suturæ bene determinatæ; scutellum breviconicum, metathorax transversus, mediocris: petiolus brevissimus: abdomen longi-fusiforme, thorace multo longius, supra planum, subtus carinatum, apice acuminatum: oviductus exertus, brevis: pedes graciles: alis nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Sp. 37. Cirr. Mycerinus, Fem. *Cupreus viridi-varius, antennæ fuscæ, pedes fulvi; alæ limpidæ.*

Nigro-cupreus: oculi et ocelli rufi: antennæ pallide fuscæ, subtus fulvæ: thoracis latera viridi-varia: oviductus vaginæ nigræ: pedes fulvi; coxæ

nigro-cupreæ; femora pallide fusca; tarsi flavi, apice fusci; protarsi obscuriores: alæ limpidae; squamulæ piceæ; nervi fulvi, metalis flavi. (Corp. long. lin. 1; alar. lin. 1½.)

Found near London.

*Fem.* Corpus longum, angustum, nitens, scitissime squameum, parce hirtum: caput mediocre, transversum, breve, convexum, thorace vix angustius; vertex latus; frons abrupte declivis, parum impressa: oculi mediocres, subrotundi, non extantes: antennæ subclavatae, corporis dimidio longiores; articulus 1<sup>us</sup> longissimus, gracilis, sublinearis; 2<sup>us</sup> longicyathiformis; 3<sup>us</sup>, 4<sup>us</sup> et 5<sup>us</sup> lineares, subæquales; clava fusiformis, acuminata, articulo 5<sup>o</sup> fere duplo longior: thorax ovatus, convexus: prothorax transversus, brevissimus, supra conspicuus: mesothoracis scutum latitudine longius, dorso foveolatum; parapsides remotæ, suturæ bene determinatæ, postice mutuo accedentes; paraptera et epimera conspicua; scutellum obconicum: metathorax mediocris: abdomen fusiforme, acuminatum, thorace longius et angustius, supra depressum, subtus carinatum; segmenta transversa, brevia, subæqualia: pedes mediocres, simplices, subæquales; tarsi articuli 1<sup>us</sup> et 3<sup>us</sup> breviores, 2<sup>us</sup> et 4<sup>us</sup> longiores; ungues et pulvilli parvi: alæ mediocres, non ciliatæ; nervus ulnaris crassus, humerali fere longior, radialis vix ullus, cubitalis sat longus in alæ discum declivis, apice stigma fingens, bimucronatum.

Sp. 38. Cirr. Adalia, Fem. *Viridi-cyaneus, antennæ piceæ, pedes flavi, femora viridia, alæ limpidae.*

Læte viridis cupreo-variis: oculi et ocelli rufi: antennæ nigro-piceæ; articuli 1<sup>us</sup> et 2<sup>us</sup> viridi-picei: abdomen cyaneo-viride cupreo-varium: oviductus vaginæ fusæ: pedes flavi; coxæ virides; femora viridia, apice flava; tarsi apice fusci: protarsi fulvi: alæ limpidae; squamulæ piceæ; nervi proalis fusci, basi flavi, metalis flavi. (Corp. long. lin. 1½; alar. lin. 1¾.)

*Var. β.*—Abdomen cyaneum, apicem versus minime cupreo-varium.

*Var. γ.*—Læte cyaneo-viridis: antennæ piceæ; articuli 1<sup>us</sup> et 2<sup>us</sup> virides: abdomen æneo-varium; protarsi fusci: proalis nervi fulvi.

*Var. δ.*—Abdomen læte cyaneum, basi viridi-æneum.

May, June; near London, Hampshire, Isle of Wight, Scotland.

*Fem.* Corpus angustum, nitens, scitissime squameum, parce hirtum: caput mediocre, transversum, breve, convexum, thorace fere latius, vertex latus; frons impressa, abrupte declivis: oculi mediocres: antennæ graciles, extorsum crassiores, corporis dimidio longiores; articulus 1<sup>us</sup> longifusiformis, validus; 2<sup>us</sup> longicyathiformis; 3<sup>us</sup> et sequentes longi, sublineares, usque ad 5<sup>um</sup> paullulum curtantes et latescentes; clava fusiformis, articulo 5<sup>o</sup> paullo latior et multo longior: thorax longiovatus, parum convexus: prothorax transversus, parvus, supra conspicuus: mesothoracis scutum latitudine longius; parapsidum suturæ bene determinatæ; scutellum obconicum: metathorax mediocris: petiolus brevissimus: abdomen fusiforme, supra planum, subtus carinatum, apice attenuatum et acuminatum, thorace paullo longius et latius; segmentum 1<sup>um</sup> magnum; 2<sup>um</sup> et sequentia transversa, brevia: pedes graciles, simplices, subæquales; tarsi articulus 1<sup>o</sup> 2<sup>o</sup> brevior, 3<sup>us</sup> 1<sup>o</sup>

longitudine, 4<sup>us</sup> 3° longior; unguis et pulvilli mediocres: alæ angustæ; nervus ulnaris humerali paullo longior, radialis brevissimus, cubitalis sat longus, apice stigma fingens, parvum subfurcatum.

Sp. 39. Cirr. Orithyia, Fem. *Æneo-cupreus viridi-varius, antennæ piceæ, pedes flavi, alæ fulvescentes.*

Cupreo-æneus: oculi et ocelli rufi: antennæ piceæ; articulus 1<sup>us</sup> nigro-æneus, subtus et basi fulvus: abdomen viridi-cupreum: oviductus pallide rufus: pedes flavi; coxæ virides; tarsi apice fuscii; protarsi pallide fuscii: alæ fulvescentes; squamulæ fulvæ; nervi fulvi. (Corp. long. lin. 1 $\frac{1}{4}$ —1 $\frac{1}{2}$ ; alar. lin. 1 $\frac{3}{4}$ —2.)

*Var. β.*—Viridis: abdominis discus cupreus.

*Var. γ.*—Caput viride: thorax viridi-æneus; discus cupreus.

June, September; near London, Isle of Wight. Near Belfast, Ireland, Mr. Haliday.

*Mas.* Corpus robustum, nitens, pubescens, scite squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: vertex latus; frons abrupte declivis: oculi mediocres, non extantes: antennæ filiformes, hirtæ, corpore breviores; articulus 1<sup>us</sup> sublinearis: 2<sup>us</sup> longicyathiformis; 3<sup>us</sup> et sequentes ad 6<sup>um</sup> longi, lineares, subæquales; clava fusiformis, longissima, acuminata, articulo 6<sup>o</sup> plus duplo longior: thorax ovatus, crassus, convexus: prothorax transversus, brevissimus, supra conspicuus: mesothoracis scutum foveolatum, latitudine vix longius; parapsidum suturæ bene determinatæ; scutellum obconicum, bifoveolatum; paraptera et epimera conspicua: metathorax mediocris: petiolus crassus brevissimus: abdomen sublineare, planum, thorace angustius et paullo brevius; segmentum 1<sup>um</sup> maximum; 2<sup>um</sup> et sequentia breviora, transversa: sexualia exerta: pedes mediocres: alæ non ciliatæ; nervus ulnaris humerali longior, radialis nullus, cubitalis longus, in alæ discum declivis.

*Fem.* Caput thorace vix angustius: antennæ extrorsum crassiores; articuli 3<sup>us</sup> et sequentes longi, lineares, ad 5<sup>um</sup> curtantes; clava fusiformis, acuminata, articulo 5<sup>o</sup> fere duplo longior: abdomen longiovatum, acuminatum, subtus carinatum, thorace fere longius non latius.

Sp. 40. Cirr. Tachos, Mas et Fem. *Viridis, antennæ piceæ, pedes flavi, femora viridia, alæ limpidæ.*

*Mas.* Cyaneo-viridis: oculi et ocelli rufi: antennæ piceæ; articuli 1<sup>us</sup> et 2<sup>us</sup> atri: abdomen cyaneo-viride; discus purpureo-cyaneus: sexualia fulva; pedes fulvi; coxæ nigro-virides; femora nigro-viridia: tarsi flavi, apice fuscii; protarsi fulvi: alæ limpidæ; squamulæ virides, proalis nervi fulvi, metalis flavi.

*Fem.* Nigro-viridis: abdomen viridi-æneum; discus nigro-cupreus. (Corp. long. lin. 1—1 $\frac{1}{4}$ ; alar. lin. 1 $\frac{1}{2}$ —1 $\frac{3}{4}$ .)

*Mas.* Corpus robustum, nitens, pubescens, scite squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum; vertex latus; frons abrupte declivis: oculi mediocres, non extantes: antennæ filiformes, hirtæ, corpore breviores; articulus 1<sup>us</sup> sublinearis; 2<sup>us</sup> longicyathiformis;

3<sup>us</sup> et sequentes ad 6<sup>um</sup> longi, lineares, subæquales; clava fusiformis, longissima, acuminata, articulo 6<sup>o</sup> plus duplo longior; thorax ovatus, crassus, convexus: prothorax transversus, brevissimus, supra conspicuus: mesothoracis scutum foveolatum, latitudine vix longius; parapsidum suturæ bene determinatæ; scutellum obconicum, bifoveolatum; paraptera et epimera conspicua: metathorax mediocris: petiolus crassus, brevissimus: abdomen sublineare, planum, thorace angustius et paullo brevius; segmentum 1<sup>um</sup> maximum; 2<sup>um</sup> et sequentia breviora, transversa: sexualia exerta: pedes mediocres, subæquales; tarsi articuli 1<sup>us</sup> et 3<sup>us</sup> breviores, 2<sup>us</sup> et 4<sup>us</sup> longiores; ungues et pulvilli parvi: alæ mediocres, non ciliatæ; nervus ulnaris humerali longior, radialis nullus, cubitalis longius in alæ discum declivis, apice stigma fingens, bimucronatum.

*Fem.* Caput thorace vix angustius: antennæ extrorsum crassiores; articuli 3<sup>o</sup> ad 5<sup>um</sup> curtantes; clava fusiformis, acuminata, articulo 5<sup>o</sup> fere duplo longior: abdomen ovatum, thorace brevius et angustius; segmenta transversa, 1<sup>um</sup> magnum, 2<sup>um</sup> et sequentia breviora.

Sp. 41. Cirr. *Attalus*, Mas et Fem. *Viridis* mas. aut *æneus* fem., abdomen cupreum, antennæ nigrae, pedes flavi, femora nigra, tibiæ fusco cinctæ, alæ limpidæ.

*Mas.* Nigro-viridis: oculi et ocelli rufi: antennæ nigrae; articuli 1<sup>us</sup> et 2<sup>us</sup> nigro-virides: abdomen nigro-cupreum, basi cupreo-viride: sexualia fusca: pedes fulvi; coxæ virides; femora nigra, apice flava; tarsi flavi, apice fusci; metatibiæ basi fusca: protarsi pallide fusci: alæ limpidæ: squamulæ piceæ; nervi fusci.

*Fem.* Cupreo-æneus: caput viride cupreo-varium: antennis articuli 1<sup>us</sup> et 2<sup>us</sup> picei, hic apice et ille subtus basique ferruginei: abdomen viridi-cupreum: alis nervi fulvi, basi fusci. (Corp. long. lin.  $\frac{3}{4}$ —1; alar. lin.  $1\frac{1}{4}$ — $1\frac{1}{2}$ .)

*Var. β. Mas.*—Metatibiæ omnino fulvæ.

*Var. γ. Mas.*—*Var. β.* similis: protarsi fulvi, apice fusci.

*Var. δ. Mas.*—Mesothoracis scutellum viridi-cupreum.

*Var. ε. Mas.*—Mesotibiæ pallide fusca, apice et basi fulvæ; metatibiæ fusca.

*Var. ζ. Mas.*—Abdomen basi viridi-cyaneum: protibiæ obscure fusca; meso- et meta-tibiæ piceæ.

*Var. η. Fem.*—Antennis articuli 1<sup>us</sup> et 2<sup>us</sup> omnino nigro-virides.

*Var. θ. Fem.*—Thorax obscure æneo-viridis.

*Var. ι. Fem.*—Abdomen viride, basi læte viridi-cupreum.

*Var. κ. Fem.*—Thorax viridis.

*Var. λ. Fem.*—*Var. κ.* similis: metatibiæ omnino fulvæ.

June; near London, Isle of Wight. Ireland, Mr. Haliday.

Sp. 42. Cirr. *Agathoecles*, Mas et Fem. *Cyaneus* aut *viridis*, abdomen cupreum, antennæ nigrae aut piceæ, pedes nigri, tarsi flavi, alæ limpidæ.

*Mas.* Cyaneo-ater: oculi et ocelli rufi: antennæ piceæ; articuli 1<sup>us</sup> et

2<sup>us</sup> nigri: abdomen nigro-cupreum: sexualia fusca: pedes nigri; trochanteres picei; genua flava; tarsi flavi, apice fusci; propedum tibiæ piceæ, apice fulvæ, tarsi fulvi: alæ limpidae; squamulæ piceæ; proalis nervi fusci metalis flavi.

*Fem.* Atro-viridis: abdomen nigro-viride, cupreo-varium: pedes nigri; trochanteres picei; genua fulva; tibiæ piceæ; tarsi flavi, apice fusci; protibiæ fulvæ; protarsi fulvi: alis nervi fulvi. (Corp. long. lin.  $\frac{3}{4}$ ; alar. lin.  $1\frac{1}{4}$ .)

*Var. β. Mas.*—Nigro-cyaneus: antennæ nigræ; articuli 1<sup>us</sup> et 2<sup>us</sup> nigro-cyanei: abdomen nigro-cupreum: pedes nigri; trochanteres fulvi; genua fulva; tarsi flavi, apice fusci; protarsi fulvi.

*Var. γ. Mas.*—Protibiæ fulvæ; meso- et metatibiæ piceæ.

*Var. δ. Mas.*—*Var. γ.* similis: protibiæ basi et apice flavæ.

*Var. ε. Fem.*—Cyaneo-viridis; antennæ nigræ; articuli 1<sup>us</sup> et 2<sup>us</sup> atri: abdomen cupreum, viridi-varium: pedes picei; coxæ nigræ; trochanteres fulvi; femora nigra; genua fulva; tarsi flavi, apice fusci; propedum tibiæ fulvæ, tarsi fusci: proalis nervi flavi.

*Var. ζ. Fem.*—Propedum tibiæ piceæ, tarsi apice fusci.

July; near London.

*Mas.* Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum; vertex latus; frons abrupte declivis, non impressa: oculi mediocres, subrotundi, non extantes: antennæ filiformes, non ciliatæ, corpore paullo breviores; articulus 1<sup>us</sup> validus, fusiformis; 2<sup>us</sup> longicyathiformis; 3<sup>us</sup> et sequentes ad 6<sup>um</sup> lineares, subæquales; clava fusiformis, acuminata, articulo 6<sup>o</sup> fere duplo longior: thorax ovatus, convexus: prothorax transversus, brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius, dorso foveolatum; parapsidium suturæ remotæ, conspicuæ; scutellum obconicum, bifoveolatum; paraptera et epimera bene determinata: metathorax mediocris: petiolus brevis, crassus: abdomen ovatum, planum, thorace angustius et brevius; segmenta parallela, 1<sup>um</sup> magnum, 2<sup>um</sup> et sequentia breviora subæqualia: sexualia exerta: pedes mediocres, simplices, subæquales; tarsis articuli 1<sup>us</sup> et 3<sup>us</sup> breviores, 2<sup>us</sup> et 4<sup>us</sup> longiores; ungues et pulvilli parvi: proalæ latæ, non ciliatæ; nervus ulnaris humerali non brevior, radialis nullus, cubitalis sat longus in alæ discum declivis, apice stigma fingens, minutum bimucronatum.

*Fem.* Antennæ extrorsum crassiores, corporis dimidio longiores; articuli 3<sup>o</sup> ad 5<sup>um</sup> curtantes; clava attenuata: abdomen breviovatum, supra planum, subtus carinatum, apice acuminatum, thorace brevius et fere latius.

Sp. 43. *Cirr.* Julis, *Mas* et *Fem.* *Cyaneus, antennæ nigræ, pedes cyanei, tibiæ piceæ aut fuscæ, tarsi pallidiores, alæ limpidae.*

*Mas.* *Cyaneus:* oculi et ocelli obscure rufi: antennæ nigræ; articuli 1<sup>us</sup> et 2<sup>us</sup> nigro-cyanei: abdomen basi cyaneo-æneum: sexualia fulva: pedes fulvi; coxæ cyaneæ; femora cyanea; tibiæ piceæ; tarsi apice fusci; propedum tibiæ fulvæ, tarsi fusci: alæ limpidae; squamulæ fulvæ; proalis nervi fulvi, metalis flavi.

*Fem.* Abdomen cyaneo-viride; discus læte purpureo-cyaneus. (Corp. long. lin.  $\frac{3}{4}$ — $1\frac{1}{4}$ ; alar. lin.  $1$ — $1\frac{1}{2}$ .)

*Var. β. Fem.*—Thoracis latera cyaneo-vidia: abdominis discus cupreus: pedes cyanei; trochanteres picei; genua flava; tibiæ fuscæ; tarsi fusci, basi flavi; protibiæ piceæ: proalis nervi fusci.

May; near London.

*Fem.* Corpus breve, crassum, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum; vertex latus; frons abrupte declivis, non impressa: oculi mediocres: antennæ sublineares, validæ, corporis dimidio longiores; articulus 1<sup>us</sup> sublinearis; 2<sup>us</sup> longifusiformis; 3<sup>us</sup>, 4<sup>us</sup> et 5<sup>us</sup> longiovati, subæquales; clava fusiformis, acuminata, articulo 5<sup>o</sup> fere duplo longior: thorax ovatus, valde convexus: prothorax transversus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturæ remotæ, bene determinatæ; scutellum obconicum, bifoveolatum: metathorax mediocris: petiolus brevissimus: abdomen ovatum, planum, thorace brevius, subtus carinatum, apice acuminatum; segmentum 1<sup>um</sup> magnum, 2<sup>um</sup> et sequentia breviora, transversa: pedes validi; tarsis articulus 1<sup>us</sup> 2<sup>o</sup> brevior, 2<sup>us</sup> 3<sup>o</sup> longior, 4<sup>us</sup> 2<sup>o</sup> longior; ungues et pulvilli parvi: alæ latæ; nervus ulnaris humerali non brevior, radialis nullus, cubitalis sat longus.

Sp. 44. Cirr. Ilithya, Fem. *Cyaneo-iridis, antennæ nigræ, pedes fusci, femora viridia, alæ sublimpidæ.*

Obscure cyaneo-iridis: oculi et ocelli rufi: antennæ nigræ; articuli 1<sup>us</sup> et 2<sup>us</sup> nigro-irides: abdomen læte viride, apice supra cyaneum; pedes virides; trochanteres fusci; genua fulva; tibiæ fuscæ; tarsi fusci, basi fulvi: alæ sublimpidæ; squamulæ piceo-irides; nervi fusci. (Corp. long. lin. 1; alar. lin.  $1\frac{1}{2}$ .)

Scotland.

*Mas.* Corpus robustum, nitens, pubescens, scite squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ filiformes, hirtæ, corpore breviores: articulus 1<sup>us</sup> fusiformis; 2<sup>us</sup> longicyathiformis; 3<sup>us</sup> et sequentes longi, lineares, subæquales; clava fusiformis, acuminata, articulo 6<sup>o</sup> duplo longior: thorax ovatus, crassus, convexus: prothorax transversus, brevissimus, supra conspicuus: mesothoracis scutum foveolatum, latitudine vix longius; parapsidum suturæ bene determinatæ; scutellum obconicum, bifoveolatum; paraptera et epimera conspicua: metathorax mediocris: petiolus crassus, brevissimus: abdomen sublineare, planum, thorace angustius et paullo brevius: pedes mediocres: alæ non ciliatæ; nervus ulnaris humerali longior, radialis nullus, cubitalis longus in alæ discum declivis.

[To be continued.]